



AFLOAT

Main Propulsion (Diesel)

(3MP)

Checklist

UPDATED April 2016

**SAFETY REVIEW ITEMS - Main Propulsion (Diesel)**

**03. Main Diesel and Drive**

1. (C1A0) ARE ENGINE THROTTLES/CONTROLS LOCKED/SECURED AND A WARNING SIGN IN PLACE INDICATING THE JACKING GEAR IS ENGAGED?

REF: NSTM 241 -3.4.7

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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2. (C1B0) ARE DIESEL ENGINE CRANKCASE COVERS IN SATISFACTORY CONDITION (ALL CRANKCASE COVERS BOLT INSTALLED AND NO SIGNS OF EXCESSIVE OIL LEAKAGE)? NOTE: SIGHT WEEPING OF LUBE OIL FROM GASKET AND SEALS IS ACCEPTABLE.

REF: NSTM 233 -13.13.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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3. (C1C1) ARE WARNING SIGNS ON THE SIDE OF ENGINE "CAUTION DO NOT OPEN OR REMOVE ENGINE CRANKCASE COVERS OR ACCESS COVERS UNTIL AT LEAST 30 MINUTES HAVE ELAPSED AFTER SHUTDOWN OF AN ENGINE WHEN IT IS KNOWN OR SUSPECTED THAT THERE HAS BEEN AN EXPLOSION, FIRE OR AN OVERHEATED PART IN THE CRANKCASE"?

REF: NSTM 233 -13.2.1.5

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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4. (C1D0) IS DIESEL ENGINE FREE OF EXCESSIVE OIL, FUEL AND WATER LEAKS (IE.. FUEL DILUTION)?

REF: NSTM 233 -13.13.

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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5. (C1E0) ARE THE DIESEL INSPECTIONS WITHIN PERIODICITY?

REF: JFMM VOL4 CH4 -4.3.2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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6. (C1F0) IS THE JACKET WATER / KEEP WARM / SPACE HEATER OPERATIONAL WHEN THE DIESEL ENGINE IS SECURED?

REF: EOSS MEDA

EOSS SDSS

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 04. Expansion Tanks

7. (C2B0) ARE THE DIESEL ENGINE WATER SYSTEM EXPANSION TANKS PROVIDED WITH AN AIR-BREAK FROM THE POTABLE WATER SYSTEM?

REF: NAVMED P-5010-5.6.1

GSO 532 B

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 05 . Engine Shutdown

8. (C3A0) ARE REMOTE OPERATED SHUTDOWN DEVICES CLEARLY LABELED?

REF: NSTM 505-7.8.3.2

GSO 502 C

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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9. (C3B0) ARE REMOTE SHUTDOWN DEVICES PROPERLY GUARDED (LOCKING PIN INSTALLED AND COVERS INSTALLED OVER DEVICES)?

REF: NSTM 505

GSO 505 B 10

GSO 070 H

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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10. (C3D0) ARE ROPE CABLES SECURED WITH THE PROPER ATTACHMENTS (U-BOLTS) AND ARE CABLES IN GOOD CONDITION (PULL HANDLE ATTACH, ROTATION TRIP DEVICE LOCKING PINNED, BARRING DEVICE CABLING CONNECTION INTERGATED)?

REF: NSTM 233 -1.10.2.1

PMS MIP 3121

PMS MIP 3112

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 06. Govenor and Trips

11. (C4B0) IS LINKAGE FOULED WITH PAINT OR DIRT?

REF: NSTM 233 13.8.5

MFGR'S TECH MANUAL

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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12. (C4C0) ARE LINKAGES BENT OR BINDING?

REF: MFGR'S TECH MANUAL

NSTM 233 13.10

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 07. Main Shafting/Spring Bearings

13. (E1B0) ARE THERMOMETERS INSTALLED?

REF: NSTM 244 -2.4.3.13

GSO 244 B 3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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14. (E1D0) IS PHYSICAL SECURITY IN PLACE FOR EQUIPMENT REQUIRING LOCKS OR LOCKING DEVICE?

REF: COMNAVSURFORINST 3540 Series 4407

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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15. (E1F0) ARE BULKHEAD SEALS IN GOOD MECHANICAL CONDITION, SELF ALIGNING AND CAPABLE OF BEING ACTIVATED FROM EITHER SIDE OF THE BULKHEAD AND NOT IN CONTACT WITH THE SHAFT WHEN NOT IN USE?

REF: NSTM 244-6.6.2

GSO 244 B 9

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 08. Main Shaft Seal/Packing

16. (E2A0) ARE EMERGENCY PACKING / INFLATION HOSES STOWED IN VICINITY OF STERN TUBE SEAL?

REF: NSTM 244-6.5

GSO 244 B 8 (2)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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17. (E2B0) ARE COOLING WATER PIPING/VALVES IN GOOD OVERALL CONDITIONS (NO SIGNS OF LEAKAGE, DENTS, GOUGES, CORROSION, ETC.)?

REF: NSTM 505

GSO 244 B 8

NSTM 244 -6.4 (FIGURE244-6-12)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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18. (E2C0) ARE GUAGES INSTALLED AND CALIBRATED?

REF: PMS MIP 9802

GSO 504 E, F, G

NSTM 504 -3.7.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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19. (E2E0) IS THERE A MEANS FOR INFLATING SEAL?

REF: PMS MIP 2400 S-1

GSO 244 B.8

NSTM 244 -6.3.3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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20. (E2F0) IS PMS BEING ACCOMPLISHED ON CO2/N2 BOTTLE FOR SEAL?  
REF: PMS MIP 2400 24M-3

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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21. (E2G0) IS THERE A SHAFT SEAL COOLING WATER SYSTEM OPERATING  
INSTRUCTION AND CASUALTY CONTROL PROCEDURES AVAILABLE FOR THE  
WATCHSTANDERS?  
REF: GSO 244 B8  
EOSS

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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#### 10. General Safety

22. (I1D0) IS THERE A SHOCK HAZARD WARNING SIGN POSTED AT AUXILIARY  
BOILER CIRCUIT CONTROL PANEL?  
REF: NAVSHIPS DRWG RE-2699757  
GSO 070 H

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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23. (I1F0) ARE UPTAKE SPACES IN SATISFACTORY CONDITION (NO FOD, RUST,  
RAGS, TOOLS MISSING BOLTS / SCREWS ON FOD SCREEN)?  
REF: NSTM 555 -1.2.3.1.b  
NSTM 221 -2.13.8

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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24. (I1I0) ARE MECHANICAL MEANS INSTALLED FOR RAISING THE AUXILIARY STEAM  
AND HOT WATER BOILERS RELIEF/SAFETY VALVE DISCS OFF THEIR  
SEATS?  
REF: NSTM 221 -3.2.12

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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25. (I1J0) IS SAFETY VALVE MANUAL LIFTING DEVICE OPERABLE FROM FIRING AISLE?

REF: NSTM 221 -3.2.12

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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26. (I1K0) ARE BOILER ROUTINE AND 5 YEAR INSPECTIONS WITHIN PERIODICITY?

REF: JFMM VOL4 CH3 -3.6.4

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 14. Treated Cooling Water Test and Treatment

27. (I6B0) ARE CHEMICALS STORED PROPERLY?

REF: NSTM 670 -26

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 15. Hearing Conservation

28. (X1A0) ARE NOISE HAZARD SIGNS POSTED IAW THE INDUSTRIAL HYGIENE SURVEY?

REF: OPNAVINST 5100.19 Series B0406

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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29. (X1B0) ARE HEARING PROTECTION DEVICES AVAILABLE FOR PERSONNEL WORKING IN OR ENTERING DESIGNATED HAZARDOUS NOISE AREA OR UTILIZING HAZARDOUS TOOLS OR EQUIPMENT?

REF: OPNAVINST 5100.19 Series B0406

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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30. (X1B1) ARE PERSONNEL WEARING HEARING PROTECTIVE DEVICES WITH APPROPRIATE FOR THE DURATION OF THE EXPOSURE?

REF: OPNAVINST 5100.19 Series B0406

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 16. Heat Stress

31. (X1C0) ARE HEAT STRESS THERMOMETERS HUNG WITH A NON-HEAT CONDUCTING MATERIAL SUCH AS PLASTIC TIE-WRAP OR STRING (NEVER HUNG WITH METAL WIRE) AND POSITIONED TO MINIMIZE THE INFLUENCE OF ANY ADJACENT OR LOCAL HEAT OR COLD SOURCE?

REF: OPNAVINST 5100.19 Series B0204(B) (C).

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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32. (X1C1) ARE THERMOMETERS VALIDATED BY ALIGNING THE ETCH MARK WITH THE ☐ FREEZING POINT (32 DEGREES FAHRENHEIT)?

REF: OPNAVINST 5100.19 Series B0204(B) (C)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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## 17. Sight Conservation

33. (X1D0) ARE PROPER EYE/FACE WASH UNITS AVAILABLE WHERE REQUIRED AS IDENTIFIED IN THE BASELINE AND/OR RECENT INDUSTRIAL HYGINE SURVEY?

REF: OPNAVINST 5100.19 SERIES B0508 (a) (9), appendix b5-a

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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34. (X1E0) ARE REQUIRED EYE WASH STATION LOCATION SIGNS POSTED AND POTABLE WATER SUPPLY VALVES LOCKED OPEN WITH A METAL, TAMPER-PROOF LANYARD AND MARKED AS A "W" OR "CIRCLE "W" FITTING?

REF: OPNAVINST 5100.19 SERIES B0508 (A)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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## 18. Deck Plates and Grating

35. (X2A0) ARE DECK PLATES FIRMLY FASTENED WITH 1.25 FASTENERS PER SQUARE INCH OF PLATE BUT NO LESS THAN TWO AND INSTALLED ON DIAGONALLY OPPOSITE SIDES?

REF: GSO 622 (c) (d)

NAVSEA DWG 803-1340709 note (1)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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36. (X2A1) ARE ACCESS LADDERS SECURELY FIXED IN PLACE?

REF: NAVSEA DWG 803-1340709 note (1)

GSO 622 (c) (d)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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37. (X2B0) ARE DECK PLATES AND LADDERS FABRICATED OF PROPER MATERIAL  
(ALUMINUM OR CRES STEEL 304)?

REF: NAVSEA STD DWG 803-1340709

GSO 622 (c) (d)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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38. (X2C0) ARE ALL BILGE DRAINAGE SUCTION STRAINERS INSTALLED?

REF: NSTM 505 -10.7.3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 19. Fasteners

39. (X3A0) ARE THREADED FASTENERS, WHEN INSTALLED AND TIGHTENED, PROTRUDE  
A DISTANCE OF AT LEAST ONE (1) THREAD BEYOND THE TOP OF THE  
NUT OR PLASTIC INSERT?

REF: GSO 075 (b)

NSTM 075 -7.5.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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40. (X3B0) ARE THE NUMBER OF THREADS PROTRUDING BEYOND THE TOP OF THE NUT  
OR PLASTIC INSERT SHOULD NOT EXCEED FIVE (5) THREADS, IN NO  
CASE SHALL THE PROTRUSION EXCEED TEN (10) THREADS IAW NSTM 075?

REF: GSO 075 (b)

NSTM 075 -7.5.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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41. (X3E0) ARE FERROUS (CARBON STEEL) FASTENERS PRESENT IN SEAWATER OR IN OTHER SYSTEMS (FRESH WATER, OR FEED) WHERE NON-FERROUS PIPING IS INSTALLED?

REF: NSTM 075 -3.3.3.2 (warning note)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 20. Instructions and Safety Precautions

42. (X4A0) ARE REQUIRED WARNING, CAUTION, OPERATING, AND INSTRUCTION PLATES AND CHARTS POSTED TO MINIMIZE THE POSSIBILITY OF INJURY TO PERSONNEL OR DAMAGE MACHINERY, EQUIPMENT OR SYSTEMS DUE TO FAULTY OPERATION RESULTING FROM THE LACK OF POSTED INSTRUCTIONS OR WHEREVER SPECIAL SAFETY PRECAUTIONS MUST BE EXERCISED?

REF: NSTM 090 -2.4.1

NAVSHIPS DWG 805-1640412

GSO 602 (h)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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43. (X4B0) ARE IDENTIFICATION PLATES INDICATING MAXIMUM ALLOWABLE LOADS OR TEST DATA INSTALLED BY LIFTING PADS OVER HEAVY EQUIPMENT?

REF: NAVSHIPS DRWG S2803-980208

NAVSHIPS DRWG S2803-980209

GSO 602 (g)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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44. (X4B1) ARE CHAIN FALLS OR MONORAIL HOISTS WEIGHT TESTED AND TEST DATA TAGS ATTACHED TO EQUIPMENT?

REF: PMS MIP 6645 60M-1R

PMS MIP 6645 A-1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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45. (X4C0) IS THE ENGINEERING OPERATIONAL SEQUENCE SYSTEM (EOSS) IN USE?

REF: EDORM

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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46. (X4D0) ARE CURRENT "TAG OUT" PROCEDURES IN USE?  
REF: NAVSEA S0400-AD-URM-010/TUM (Tag Out User's Manual),  
current revision.  
OPNAVINST 3120.32 SERIES 630.17

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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## 21. Hazardous Materials

47. (X5A0) ARE TOXIC OR HIGHLY FLAMMABLE MATERIALS (FLASH POINT 200  
DEGREES AND BELOW) STOWED IN MACHINERY SPACES?  
REF: NSTM 670-17.3.2.2.2  
OPNAVINST 5100.19 Series c2302

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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48. (X5B0) ARE ALL HAZARDOUS MATERIAL CONTAINERS CLEARLY LABELED WITH  
MATERIAL NAME, MANUFACTURES NAME AND ADDRESS, STOCK NUMBER,  
HCC AND THE NATURE OF THE HAZARD PRESENTED BY THE HM INCLUDING  
THE TARGET ORGAN?  
REF: NSTM 670 -3.2.3

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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49. (X5B1) ARE HAZARDOUS MATERIALS PROPERLY STOWED?  
REF: NSTM 670 -3

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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## 22. System and Equipment Monitoring

50. (X6A0) ARE GAGES AND INDICATORS PROPERLY MOUNTED?  
REF: GSO 504 (b) (d) (e) (g) (k) (l)  
NSTM 504 -3.5.5

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

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51. (X6B0) ARE LIQUID COLUMN SIGHT GLASS PROTECTIVE GUARDS PROPERLY  
IINSTALLED?

REF: NAVSHIPS DRWG 803-2145532

GSO 504 (k)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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52. (X6C0) ARE CRITICAL AND NON-CRITICAL GAGES AND INDICATORS CALIBRATED?

REF: PMS MIP 9802

GSO 504 (Q)

NSTM 504 -3.7.1

SHIP CRL

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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### 23. Pumps and Auxiliary Machinery

53. (X7B0) ARE MACHINERY FOUNDATIONS IN SATISFACTORY CONDITION, FREE OF  
CRACKS AND BASE METAL DETERIORATION FROM CORROSION AND ARE THE  
MECHANICAL JOINTS TIGHTENED?

REF: GSO 100 F

PMS MIP 6300/001 S-1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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54. (X7C0) ARE COUPLING GUARDS INSTALLED ON ROTATING MACHINERY?

REF: GSO 070 (H)

OPNAVINST 5100.19 Series C1302 (A) (16)

OPNAVINST 5100.19 Series C0104 (A) (4)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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55. (X7C1) ARE COUPLING/BELT GUARDS PAINTED RED FOR ROTATING MACHINERY?

REF: OPNAVINST 5100.19 Series C0104 (A) (4)

OPNAVINST 5100.19 Series C1302 (A) (16)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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56. (X7D0) ARE EQUIPMENT OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS POSTED?

REF: GSO 602 (H)

NAVSHIPS DWG 804-1640412

NSTM 090 -2.4.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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#### 24. Flexible Hoses

57. (X8A0) ARE FLEXIBLE HOSE ASSEMBLIES PROPERLY INSTALLED?

REF: PMS MIP 5000/009 S-1/A-1/A-2

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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58. (X8A1) ARE FLEXIBLE HOSE ASSEMBLIES FREE OF TWIST BETWEEN FITTINGS, PROPERLY SUPPORTED AGAINST RESILIENTLY MOUNTED EQUIPMENT TO PREVENT CHAFING?

REF: PMS MIP 5000/009 S-1/A-1/A-2

NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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59. (X8A2) ARE FLEXIBLE HOSE ASSEMBLIES FREE OF EXCESSIVE SAG OR STRESS?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9)

PMS MIP 5000/009 S-1/A-1/A-2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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60. (X8B0) ARE FLEXIBLE HOSES PROPERLY IDENTIFIED WITH A NONCORRODIBLE METAL TAG?

REF: PMS MIP 5000/009 S-1/A-1/A-2

NAVSEA S6430-AE-TED-010 VOL.1 (SECTIONS 8.5 AND 9)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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61. (X8C0) ARE FLEXIBLE HOSES PAINTED (A FEW SPOTS INADVERTENTLY SPLASHED ON THE HOSE IS ACCEPTABLE AS LONG AS PAINTED AREA IS 10% OR LESS THAN THE HOSE SURFACE AREA)?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 9.J, 10.J)

PMS MIP 5000/009 S-1/A-1/A-2

NSTM 631 VOL. 3 (8.22.1.Z)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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62. (X8D0) ARE FLEXIBLE HOSES EXCESSIVELY SOFT?

REF: NAVSEA S6430-AE-TED-010 VOL.1 (SECTION 10. O

PMS MIP 5000/009 S-1/A-1/A-2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 25. Rubber Expansion Joints

63. (X9A0) ARE RUBBER EXPANSION JOINTS PROPERLY INSTALLED AND ALIGNED?

REF: NSTM 505 -3.3 (table 505-3-1)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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64. (X9B0) ARE RUBBER EXPANSION JOINTS FREE OF CRACKS AND CUTS?

REF: NSTM 505 -3.3.3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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65. (X9C0) ARE RUBBER EXPANSION JOINTS FREE OF PAINT?

REF: NSTM 631 VOL1 (8.17.1.z)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 26. Escape Trunks

66. (Y0A0) ARE THERE OBSTRUCTIONS AT THE ESCAPE TRUNKS?

REF: OPNAVINST 5100.19 Series c0102(a)(6)

OPNAVINST 5100.19 Series c0102(a)(3)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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67. (Y0B0) ARE LADDER RUNGS CONTINUOUS AROUND TWO BULKHEADS?

REF: GSO 622 C

NAVSEA DWG 804-5184093

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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68. (Y0C0) DOES ESCAPE TRUNK BALANCE JOINER DOOR HAVE TWO CLOSING SPEEDS (DOOR SHOULD TRAVEL THROUGH INITIAL CLOSING ARC AT A REASONABLY FAST RATE AND SLOW DURING FINAL 8" to 10" OF CLOSING SO DOOR DOES NOT SLAM. THE NOMINAL SPEED RANGE IS 6 TO 8 SECONDS, HOWEVER DOOR CLOSING SPEED SHALL NOT BE LESS THAN 5 SECONDS AND NO GREATER THAN 10 SECONDS)?

REF: PMS MIP 6241/002 S-3

PMS MIP 6241/002 S-1

GSO 624 J

NAVSEA DWG 804-5184129

PMS MIP 6241/002 S-4

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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69. (Y0D0) ARE ESCAPE TRUNKS WELL LIT AND HAVE EMERGENCY LIGHTING?

REF: NSTM 330-1.6.4.2

GSO 332 G

GSO 332 E

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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70. (Y0E0) ARE LABEL PLATES INSTALLED ON TOP OF ESCAPE SCUTTLES INSCRIBED WITH 1-INCH RED LETTERS THAT STATE "ESCAPE SCUTTLE DO NOT OBSTRUCT OR BLOCK"?

REF: NAVSHIPS DRWG 805-1640412

GSO 602 J

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 27. Lagging/insulation

71. (Y1A0) IS LAGGING/INSULATION ADEQUATE?

REF: GSO 508 (B)

NSTM 635 (SECTIONS 2 AND 3)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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72. (Y1B0) IS LAGGING/INSULATION TORN OR MISSING (SEAM INTACT AND TAPED / PIN / STUDS SECURE)?

REF: NSTM 635 -2.9.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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73. (Y1C0) ARE LAGGING/INSULATION OIL / WATER SOAKED?

REF: NSTM 635 -2.9.1(6)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 28. Reduction Gear Security

74. (Y2A0) ARE MEDIUM OR HIGH SECURITY PADLOCKS INSTALLED (ISEA ADVISORY NUMBER 006-01 VERIFY S&G MODEL 833 HIGH SECURITY LOCKS HAVE BEEN CHANGED OUT WITH ABLOY MODEL PL655 OR PL656)?

REF: NSTM 241 -4

ISEA ADVISORY NR 006-01

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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75. (Y2B0) ARE ALL OTHER ACCESSES PROTECTED FROM UNAUTHORIZED ENTRY?

REF: NSTM 241 -4.2.4 c

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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76. (Y2C0) DO VENT FOG PRECIPITATORS / MIST ELIMINATORS APPEAR TO BE IN SATISFACTORY CONDITION AND HAVE A WARNING PLATE INSCRIBED WITH "WARNING HIGH VOLTAGE"?

REF: NSTM 262 -3.1.2 I

GSO 262 C

NSTM 241 -2.3.14

NAVSEA STD DWG 803-2145504

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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77. (Y2C1) DO VENT FOG PRECIPITATORS / MIST ELIMINATORS HAVE A WARNING PLATE POSTED INSCRIBED WITH "WARNING HIGH VOLTAGE"?

REF: NSTM 241 -2.3.14

GSO 262 C

NSTM 262 -3.1.2 I

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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78. (Y2D0) ARE INSTALLED REDUCTION GEAR DEHUMIDIFIERS MAINTAINING AIR IN THE MRG CASING AT LESS THAN 35 PERCENT RELATIVE HUMIDITY?

REF: NSTM 241 -3.5.2.4

EOSS

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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## 29. Lube Oil System

79. (Y5A0) ARE THERE LATCHING DEVICES FOR ALL MAIN LUBE OIL PUMPS SUCTION AND DISCHARGE VALVES TO PREVENT SHUTING?

REF: EDORM SEC 4407 (b) (3)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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80. (Y5B0) ARE PURIFIER DRAINS PIPED TO CONTAMINATED OIL TANK?

REF: NSTM 541-4.7.3

GSO 262 (c) (3)

GSO 534 (C) (3)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

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81. (Y5C0) DOES THE LUBE OIL STORAGE AND SETTLING TANKS HAVE OVERFLOW AND DRAIN CONNECTIONS LEADING TO THE OILY WATER DRAIN OR WASTE COLLECTING SYSTEM?

REF: NSTM 541-4.7.3

GSO 262 (C) (2)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

82. (Y5D0) ARE STRAINERS PROVIDED WITH PROTECTIVE COVERS?

REF: NSTM 505 -10.3.1.2

NSTM 079 -46.5.3.1

GSO 505 (E) (7)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

83. (Y5E0) ARE STRAINERS PROVIDED WITH VENT/DRAIN VALVES?

REF: NSTM 505 -10.3.1.6

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

84. (Y5F0) ARE STRAINERS PROVIDED WITH DRIP PANS?

REF: GSO 262 (C) (1)

NSTM 505 -10.3.1.6.1 (12)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

### 30. Oil Piping Flange Shields

85. (Y6A0) ARE LUBE OIL AND FUEL OIL PIPING FLANGE SHIELDS OF CORRECT MATERIAL?

REF: NSTM 505 FIG 505-7-15  
NAVSEA DRAWING 803-2145518  
NSTM 505 -7.9.4.1  
GSO 505 E  
NSTM 233 -7.9  
GSO 502 B

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

---

86. (Y6B0) ARE FLANGE SHIELDS PROPERLY INSTALLED?

REF: NSTM 505 -7.9.4.2  
GSO 505 (E) (7)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

---

87. (Y6C0) ARE ANY FLANGE SHIELDS MISSING?

REF: NSTM 505 -7.9.4.5  
GSO 505 (e) (7)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

---

### 31. Valves and Valve Operators

88. (Y7A0) ARE REMOTE OPERATED VALVES OPERATIONAL AND PROPERLY ATTACHED?

REF: NSTM 505 -7.8.3.2  
GSO 505 (e) (4) (b)

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

---

89. (Y7B0) ARE VALVE HANDWHEELS PROPERLY SECURED AND LABELED?

REF: NSTM 505 -7.8.2.2  
NAVSEA S0400-AD-URM-010/TUM (TAG OUT USERS MANUAL)  
1.6.4.a(1)  
GSO 507 F

C R NA UA  
☐ Repeat  
☐ Significant  
☐ PMS

---

90. (Y7C0) ARE HANDWHEELS MADE OF PROPER MATERIALS?

REF: GSO 505 C2

NAVSHIPS DWG 803-1385620.

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

91. (Y7D0) ARE VALVE HANDWHEELS PROPERLY COLOR CODED?

REF: NSTM 505 -7.8.2.2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

### 32. Sea Chest Blow Out

92. (Y8A0) ARE WARNING PLATES STATING "DO NOT PERMIT STEAM OR AIR PRESSURE TO EXCEED 35 POUNDS WHEN BLOWING-OUT SEA CHEST" AND OPERATING INSTRUCTIONS INSTALLED BETWEEN THE NEEDLE VALVE AND HOSE VALVE FOR THE SEA CHEST?

REF: PMS MIP 1631 18M-1

GSO 253 (d) (2)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

93. (Y8B0) IS THERE A RELIEF VALVE SET AT 40 PSI AND A CONNECTION FOR BLEEDING STEAM/AIR PRESSURE ON THE SEA CHEST BLOW OUT SYSTEM?

REF: GSO 253 (d) (2)

NSTM 505 -10.3.1.9

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

94. (Y8C0) IS THERE A PRESSURE GAGE INSTALLED IN THE STEAM OR AIR PRESSURE SUPPLY LINE FOR THE SEA CHEST BLOW OUT?

REF: GSO 253 (D) (2)

NSTM 505 -10.3.1.9,

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

### 33. Piping Systems

95. (Y9A0) ARE PIPING SYSTEMS ADEQUATELY LABELED?

REF: NSTM 505 table 505-7-1

NSTM 505 -7.8.3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

96. (Y9B0) ARE PIPING SYSTEMS PROPERLY COLOR CODED?

REF: NSTM 505 -7.8.2

NSTM 505 table 505-7

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

97. (Y9C0) ARE PIPING SUPPORT DEVICES PROPERLY MAINTAINED?

REF: NSTM 505 -7.5

NAVSHIPS DWG 804-1385781

GSO 505 (c) (4)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

98. (Y9D0) ARE FLAMMABLE SYSTEMS LEAK TIGHT (NO VISIBLE EVIDENCE OF LEAK)?

REF: NSTM 505 -8.3.1.

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

99. (Y9E0) ARE NON-FLAMMABLE SYSTEMS LEAK TIGHT?

REF: NSTM 505 -8.3.

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

100. (Y9F0) ARE WARNING PLATES INSCRIBED "WARNING ENSURE THAT THE ISOLATION VALVES ON EACH SIDE OF THE PRESSURE REGULATOR ARE CLOSED BEFORE OPENING THE BY-PASS VALVE", INSTALLED ON REDUCER BYPASS VALVES?

REF: NSTM 505-9.18.6

GSO 505 -b7

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

#### 34. Relief Valves

101. (Z0A0) DO RELIEF VALVES APPEAR TO BE IN GOOD WORKING ORDER? (FREE OF  
BROKEN SPRINGS, LEAKING, BENT STEMS OR CORRODED)

REF: NSTM 505 -9.18.2.

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

102. (Z0B0) ARE RELIEF VALVES PROPERLY LABELED?

REF: PMS 5000 72M-3

GSO 505 (E) (1).

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

103. (Z0C0) ARE RELIEF VALVES EQUIPPED WITH A TAIL PIPE THAT DOES NOT  
STRESS THE VALVE BODY AND DISCHARGES WHERE IT DOES NOT CREATE  
A HAZARD TO PERSONNEL OR EQUIPMENT?

REF: GSO 505 (E) (1)

NSTM 505 -9.17.3

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

104. (Z0D0) ARE METAL TAGS PROVIDED TO INDICATE SHIP NAME AND HULL NUMBER,  
DATE OF LIFT TEST, LIFTING PRESSURE, VALVE NUMBER OR  
IDENTIFICATION?

REF: GSO 505 (H)

NSTM 505 -9.17.5.2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

#### 35. Eductors and Bilge Drainage

105. (Z1A0) ARE SUCTION STRAINERS INSTALLED AND IN GOOD OVERALL CONDITION?  
(NO SIGNS OF DENTS, GOUGES, CORROSION, BLOCKAGES)

REF: NSTM 505 -10.7.3

GSO 529 (j)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

106. (Z1B0) IS THERE A MINIMUM OF ONE SPACE SUCTION VALVE WHICH IS OPERABLE FROM THE DAMAGE CONTROL DECK?

REF: MILSPEC E-24127

GSO 529 (J)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

107. (Z1C0) ARE EDUCTORS AND BILGE DRAINAGE SYSTEM OPERATING INSTRUCTIONS POSTED?

REF: NSTM 505 -10.7.6

GSO 529 (h)

NSTM 505 -10.7.

NSTM 505 -10.7.2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

108. (Z1D0) IS THE OIL POLLUTION ACT POSTED AT THE OVERBOARD DISCHARGE VALVES, DECK RISERS AND PUMPS CAPABLE OF DISCHARGING OILY WASTE?

REF: NSTM 593 -3.7.5

GSO 593 (D)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

109. (Z1E0) ARE ACTUATING PRESSURE AND SUCTION PRESSURE GAGES INSTALLED AND PRESSURIZED?

REF: GSO 529 -H

NSTM 505 figure 505-10.2

MIP 5291 A-9

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

110. (Z1F0) ARE EDUCTOR SUCTION CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL VACUUM IS INDICATED ON GAGE"?

REF: MILSPEC E-24127

GSO 529 (H)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

111. (Z1G0) ARE EDUCTOR FIREMAIN ACTUATING CUT-OUT VALVES PROVIDED WITH THE WARNING SIGN STATING, "DO NOT OPEN UNTIL OVERBOARD DISCHARGE VALVE IS OPEN"?

REF: MILSPEC E-24127

GSO 529 (H)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

112. (Z1H0) ARE BILGES CONTAMINATED WITH OIL, FUEL OR TRASH?

REF: EDORM SECTION 4502

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

### 36. Oil Lab

113. (Z2A0) ARE REQUIRED NUMBER OF MARK II OIL SPILL CLEAN UP KITS ON BOARD?

REF: AEL 2-550024006

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

114. (Z2B0) ARE MARK II KITS FULLY STOCKED AND ACCESSIBLE FOR QUICK USE?

REF: NSTM 593 -3.6.6.2

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

115. (Z2C0) DOES THE SHIP HAVE AN OIL SPILL CONTINGENCY PLAN THAT HAS BEEN TAILORED TO THE SHIP?

REF: OPNAVINST 5100.19 Series b0302 (4) (q)

OPNAVINST M 5090.1 Series Ch. 35, para 35-3.15.h

OPNAVINST 5100.19 Series b0304 (a) (1) (f)

OPNAVINST 5100.19 Series b0304 (b) (1)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---



116. (Z2C1) ARE OIL SPILL KITS INSPECTED MONTHLY AND REPLENISHED AS REQUIRED?

REF: OPNAVINST M 5090.1 Series Ch. 35, para 35-3.15

OPNAVINST 5100.19 Series b0304 (a) (1) (f)

OPNAVINST 5100.19 Series b0302 (4) (q)

OPNAVINST 5100.19 Series b0304 (b) (1)

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

117. (Z2E0) ARE PORTABLE ELECTRICAL LABORATORY EQUIPMENT TESTED FOR ELECTRICAL SAFETY IN ACCORDANCE WITH PMS?

REF: PMS MIP 3000/001

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

118. (Z2E1) IS NAVI FLASH / APPROVED FLASHPOINT TESTER IN WORKING ORDER AND CALIBRATED?

REF: NSTM 262-51.4.1

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

119. (Z2F0) IS AN APPROVED CORROSIVE LOCKER, < 30 GAL, AVAILABLE TO STORE ACID IN APPROPRIATE CONTAINERS?

REF: NSTM 670 -13.3

NSTM 220 -26

NSTM 593 Appendix A and B

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

120. (Z2G0) HAVE CHEMICALS EXCEEDED THEIR SHELF LIFE?

REF: NSTM 220 -26

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

121. (Z2H0) ARE ALL CHEMICALS STORED IN APPROVED FLAMMABLE OR COOROSIVE LOCKERS, <30 GAL?

REF: NSTM 220 -26

NSTM 670 -12.3.1.b

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

122. (Z2I0) ARE MERCURIC NITRATE REAGENTS DISPOSED OF PROPERLY?

REF: NSTM 670-13.8

NSTM 670-37.8

OPNAVINST 5100.19 Series APPENDIX B-3-B

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

### 37. Underway Operations

123. (Z3A0) IS ORM APPLIED NOT ONLY TO OPERATIONAL MISSIONS, BUT AT THE DECK PLATE LEVEL FOR DAY TO DAY WORK UNIT OPERATIONS AS WELL?

REF: OPNAVINST 5100.19 Series A0402.C

C R NA UA

☐ Repeat

☐ Significant

☐ PMS

---

## Main Propulsion (Diesel)

COMMAND NAME:

LOCATION:

UIC:

DATE:

SURVEYOR(S):

NO. COMPLETE:

NO. REQ ACTION:

NOT APPLICABLE:

Q #	Question	Result				Sig	Rep	PMS
1	3MPC1A0	C	R	N	U			
2	3MPC1B0	C	R	N	U			
3	3MPC1C1	C	R	N	U			
4	3MPC1D0	C	R	N	U			
5	3MPC1E0	C	R	N	U			
6	3MPC1F0	C	R	N	U			
7	3MPC2B0	C	R	N	U			
8	3MPC3A0	C	R	N	U			
9	3MPC3B0	C	R	N	U			
10	3MPC3D0	C	R	N	U			
11	3MPC4B0	C	R	N	U			
12	3MPC4C0	C	R	N	U			
13	3MPE1B0	C	R	N	U			
14	3MPE1D0	C	R	N	U			
15	3MPE1F0	C	R	N	U			
16	3MPE2A0	C	R	N	U			
17	3MPE2B0	C	R	N	U			
18	3MPE2C0	C	R	N	U			
19	3MPE2E0	C	R	N	U			
20	3MPE2F0	C	R	N	U			
21	3MPE2G0	C	R	N	U			
22	3MPI1D0	C	R	N	U			
23	3MPI1F0	C	R	N	U			
24	3MPI1I0	C	R	N	U			
25	3MPI1J0	C	R	N	U			
26	3MPI1K0	C	R	N	U			
27	3MPI6B0	C	R	N	U			
28	3MPX1A0	C	R	N	U			
29	3MPX1B0	C	R	N	U			
30	3MPX1B1	C	R	N	U			
31	3MPX1C0	C	R	N	U			
32	3MPX1C1	C	R	N	U			
33	3MPX1D0	C	R	N	U			

Q #	Question	Result				Sig	Rep	PMS
34	3MPX1E0	C	R	N	U			
35	3MPX2A0	C	R	N	U			
36	3MPX2A1	C	R	N	U			
37	3MPX2B0	C	R	N	U			
38	3MPX2C0	C	R	N	U			
39	3MPX3A0	C	R	N	U			
40	3MPX3B0	C	R	N	U			
41	3MPX3E0	C	R	N	U			
42	3MPX4A0	C	R	N	U			
43	3MPX4B0	C	R	N	U			
44	3MPX4B1	C	R	N	U			
45	3MPX4C0	C	R	N	U			
46	3MPX4D0	C	R	N	U			
47	3MPX5A0	C	R	N	U			
48	3MPX5B0	C	R	N	U			
49	3MPX5B1	C	R	N	U			
50	3MPX6A0	C	R	N	U			
51	3MPX6B0	C	R	N	U			
52	3MPX6C0	C	R	N	U			
53	3MPX7B0	C	R	N	U			
54	3MPX7C0	C	R	N	U			
55	3MPX7C1	C	R	N	U			
56	3MPX7D0	C	R	N	U			
57	3MPX8A0	C	R	N	U			
58	3MPX8A1	C	R	N	U			
59	3MPX8A2	C	R	N	U			
60	3MPX8B0	C	R	N	U			
61	3MPX8C0	C	R	N	U			
62	3MPX8D0	C	R	N	U			
63	3MPX9A0	C	R	N	U			
64	3MPX9B0	C	R	N	U			
65	3MPX9C0	C	R	N	U			
66	3MPY0A0	C	R	N	U			
67	3MPY0B0	C	R	N	U			
68	3MPY0C0	C	R	N	U			
69	3MPY0D0	C	R	N	U			
70	3MPY0E0	C	R	N	U			
71	3MPY1A0	C	R	N	U			
72	3MPY1B0	C	R	N	U			
73	3MPY1C0	C	R	N	U			
74	3MPY2A0	C	R	N	U			
75	3MPY2B0	C	R	N	U			
76	3MPY2C0	C	R	N	U			

Q #	Question	Result				Sig	Rep	PMS
77	3MPY2C1	C	R	N	U			
78	3MPY2D0	C	R	N	U			
79	3MPY5A0	C	R	N	U			
80	3MPY5B0	C	R	N	U			
81	3MPY5C0	C	R	N	U			
82	3MPY5D0	C	R	N	U			
83	3MPY5E0	C	R	N	U			
84	3MPY5F0	C	R	N	U			
85	3MPY6A0	C	R	N	U			
86	3MPY6B0	C	R	N	U			
87	3MPY6C0	C	R	N	U			
88	3MPY7A0	C	R	N	U			
89	3MPY7B0	C	R	N	U			
90	3MPY7C0	C	R	N	U			
91	3MPY7D0	C	R	N	U			
92	3MPY8A0	C	R	N	U			
93	3MPY8B0	C	R	N	U			
94	3MPY8C0	C	R	N	U			
95	3MPY9A0	C	R	N	U			
96	3MPY9B0	C	R	N	U			
97	3MPY9C0	C	R	N	U			
98	3MPY9D0	C	R	N	U			
99	3MPY9E0	C	R	N	U			
100	3MPY9F0	C	R	N	U			
101	3MPZ0A0	C	R	N	U			
102	3MPZ0B0	C	R	N	U			
103	3MPZ0C0	C	R	N	U			
104	3MPZ0D0	C	R	N	U			
105	3MPZ1A0	C	R	N	U			
106	3MPZ1B0	C	R	N	U			
107	3MPZ1C0	C	R	N	U			
108	3MPZ1D0	C	R	N	U			
109	3MPZ1E0	C	R	N	U			
110	3MPZ1F0	C	R	N	U			
111	3MPZ1G0	C	R	N	U			
112	3MPZ1H0	C	R	N	U			
113	3MPZ2A0	C	R	N	U			
114	3MPZ2B0	C	R	N	U			
115	3MPZ2C0	C	R	N	U			
116	3MPZ2C1	C	R	N	U			
117	3MPZ2E0	C	R	N	U			
118	3MPZ2E1	C	R	N	U			
119	3MPZ2F0	C	R	N	U			

Q #	Question	Result				Sig	Rep	PMS
120	3MPZ2G0	C	R	N	U			
121	3MPZ2H0	C	R	N	U			
122	3MPZ2I0	C	R	N	U			
123	3MPZ3A0	C	R	N	U			